

**SAFETY DATA SHEET (EC 1907/2006)**

**Dynasylan® DAMO**

Material no.		Version	3.7 / REG_EU
Specification	116485	Revision date	06.07.2007
VA-Nr		Print Date	06.07.2007
		Page	2 / 6

**degussa.**

Move victims into fresh air.  
If symptoms persist, consult a physician for treatment.

**Skin contact**

Wash off immediately with plenty of water.

**Eye contact**

Rinse thoroughly with plenty of water keeping eyelid open.  
In case of persistent discomfort: Consult an ophthalmologist.

**Ingestion**

Have the mouth rinsed with water.  
Consult a physician immediately.

**Notes to physician**

after absorbing large amounts of substance:  
Liberation of reaction products (Methanol) can lead to symptoms of poisoning.

**Possible signs of poisoning:**

daze, dizziness, nausea, colicky abdominal pain, respiratory disturbance.

Symptoms upon increasing Intoxication: dysopia, loss of eyesight.

**Treatment:**

Immediate gastric lavage, Antidote treatment, correction of acid-base balance.

Detection of substance (Methanol) possible in:

**Blood**

Antidote treatment: ethanol.

Allergic reactions cannot be excluded.

Treatment of allergic reaction if necessary.

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**5. FIRE-FIGHTING MEASURES**

**Suitable extinguishing media**

foam, water spray, CO<sub>2</sub>, dry powder

**Specific hazards during fire fighting**

Hazardous fumes in fires, specific to the product;  
nitrogen oxides (NO<sub>x</sub>)

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**6. ACCIDENTAL RELEASE MEASURES**

**Personal precautions**

Use personal protective equipment.  
Avoid contact with skin and eyes.

**Environmental precautions**

Do not allow substance to enter soil, bodies of water or sewage canals.

**Methods for cleaning up**

Soak up with inert absorbent material (e.g. sand, silica gel, acid binder, universal binder, sawdust).  
Fill into marked, sealable containers.

To be disposed of in compliance with existing regulations.

Suitable binder: sand (for damming up), sawdust, universal absorbent

**SAFETY DATA SHEET (EC 1907/2006)****Dynasylan® DAMO**

Material no.	Version	3.7 / REG_EU
Specification	Revision date	05.07.2007
VA-Nr	Print Date	06.07.2007
	Page	3 / 6

**degussa.****7. HANDLING AND STORAGE****Handling****Safe handling advice**

Application, processing: Provide good ventilation or extraction.

**Advice on protection against fire and explosion**

Normal measures for preventive fire protection.

**Storage****Requirements for storage areas and containers**

Keep containers tightly closed in a cool, well-ventilated place.  
Protect from moisture.

**8. EXPOSURE CONTROLS / PERSONAL PROTECTION****Components with workplace control parameters****Engineering measures**

Provide for good ventilation if vapours/aerosols are formed.  
Application, processing: Provide good ventilation or extraction.

**Personal protective equipment****Respiratory protection**

In case of dusts/vapours/aerosols being formed or if the limit values like TLV are exceeded:  
use respiratory equipment with suitable filter or wear a self contained respiratory apparatus

**Hand protection**

Glove material	for example, butyl-rubber
Material thickness	0,5 mm
Break through time	>= 480 min
Glove material	for example, Fluorinated rubber (Viton)
Material thickness	0,4 mm
Break through time	>= 480 min

Selection of protective gloves to meet the requirements of specific workplaces.

Suitability for specific workplaces should be clarified with protective glove manufacturers.

The information is based on our own tests, references from the literature and information from glove manufacturers, or derived by analogy with similar materials.

Remember that the useful time per day of a chemical protection glove may be much shorter than the permeation time determined according to EN 374 due to the many different influential factors involved (e.g. temperature).

**Eye protection**

close-fitting protective goggles (e.g. closed goggles)

**Hygiene measures**

Avoid contact with skin and eyes.

Do not wear contaminated clothing.

Do not inhale vapours / aerosols.

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Material no.  
Specification  
VA-Nr

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Version  
Revision date  
Print Date  
Page3.7 / REG\_EU  
05.07.2007  
06.07.2007  
4 / 6

degussa.

## 9. PHYSICAL AND CHEMICAL PROPERTIES

## Appearance

Form liquid  
Colour colourless  
Odour amine-like

## Safety data

pH	10	(10 g/l)	(20 °C)
Boiling point/range	140 °C	(20 hPa)	
	Method:	DIN 51 356	
Flash point	136 °C		
	Method:	DIN 51758	
Ignition temperature	300 °C		
	Method:	DIN 51 794	
Vapour pressure	1,6 hPa	(20 °C)	
Density	1,03 g/cm³	(20 °C)	
	Method:	DIN 51757	
Water solubility	not miscible		
	decomposition by hydrolysis		
Viscosity, dynamic	6 mPas	(20 °C)	
	Method:	DIN 53 015	

## 10. STABILITY AND REACTIVITY

Materials to avoid	acids, water
Hazardous decomposition products	Methanol in case of hydrolysis.
Hazardous reactions	Exothermic reaction with: acids

## 11. TOXICOLOGICAL INFORMATION

Acute oral toxicity	LD50 rat: 7684 mg/kg (literature value) RTECS
	possibly harmful (methanol in case of hydrolysis)
Skin irritation	irritating Lit.(1)
Eye irritation	irritating Lit.(1)

**SAFETY DATA SHEET (EC 1907/2006)****Dynasyilan® DAMO**

Material no.	Version	3.7 / REG_EU
Specification	Revision date	05.07.2007
VA-Nr	Print Date	06.07.2007
	Page	5 / 6



Sensitization	markedly sensitising Method: (Magnusson-Kligman test) Lit.(1)
Further information	Lit.(1) Own study

**12. ECOLOGICAL INFORMATION****Elimination information (persistence and degradability)**

Biodegradability	Result: 50 % Method: EC 92/69 (literature value)
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**Behaviour in environmental compartments****Ecotoxicity effects**

Toxicity to fish	LC50 Brachydanio rerio: 597 mg/l / 96 h Method: EC 92/69
	LC50 Brachydanio rerio: 344 mg/l / 96 h Method: EC 92/69
Toxicity to daphnia	EC50 Daphnia magna: 81 mg/l / 48 h Method: EC 92/69
Toxicity to algae	EC50 <i>Scenedesmus subspicatus</i> : 126 mg/l / 72 h Method: EC 92/69
	NOEC <i>Scenedesmus subspicatus</i> : 20 mg/l / 72 h Method: EC 92/69
Toxicity to bacteria	EC 10 <i>Pseudomonas putida</i> : 26 mg/l / 16 h Method: DIN 38412 part 8

**Further information on ecology**

Further Information	Harmful to aquatic organisms, may cause long-term adverse effects in the aquatic environment.
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**13. DISPOSAL CONSIDERATIONS****Product**

With respect to local regulations, e.g. dispose of to suitable waste incineration plant.  
No waste key number as per the European Waste Types List can be assigned to this product, since such classification is based on the (as yet undetermined) use to which the product is put by the consumer.

The waste key number must be determined as per the European Waste Types List (decision on EU Waste Types List 2000/532/EC) in cooperation with the disposal firm / producing firm / official authority.

**SAFETY DATA SHEET (EC 1907/2006)**

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Material no.

110485

Version

3.7 / REG\_EU

Specification

05.07.2007

VA-Nr

Print Date

06.07.2007

Page

6 / 6

**degussa.**

**14. TRANSPORT INFORMATION**

**Transport/further information**

Not classified as dangerous in the meaning of transport regulations.

**15. REGULATORY INFORMATION**

**Labelling according to EC Directives**

Statutory basis/list Symbol(s)	According to Directive 67/548/EEC: Xi	According to Directive 67/548/EEC: Irritant
R-phrase(s)	R36/38 R43 R52/53	Irritating to eyes and skin. May cause sensitization by skin contact. Harmful to aquatic organisms, may cause long-term adverse effects in the aquatic environment.
S-phrase(s)	S24 S37/39	Avoid contact with skin. Wear suitable gloves and eye/face protection.

**National legislation**

**16. OTHER INFORMATION**

**Risk phrase (R phrase) texts**

**- N-(3-(trimethoxsilyl)propyl)ethylenediamine**

R36/38	Irritating to eyes and skin.
R43	May cause sensitization by skin contact.
R52/53	Harmful to aquatic organisms, may cause long-term adverse effects in the aquatic environment.

**Further Information**

Changes since the last version are highlighted in the margin. This version replaces all previous versions.

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